```
Db      241 RRAVSTCGSHLTMVGFLYGTIICVYFQPPFQNSQYQDMVASVMYTAITPLANPFVYSLHN 300

Qy      301 KDVKGALCRLLEWVKVDP 318
            ||||||||||||||||||
Db      301 KDVKGALCRLLEWVKVDP 318


RESULT 9
US-60-188-914-57
; Sequence 57, Application US/60188914
; GENERAL INFORMATION:
;  APPLICANT: Zozulya, Sergey
;  TITLE OF INVENTION: Novel human olfactory (odorant)
;  TITLE OF INVENTION: receptors and uses thereof
;  FILE REFERENCE: AMBRYX.004PR
;  CURRENT APPLICATION NUMBER: US/60/188,914
;  CURRENT FILING DATE: 2000-03-13
;  NUMBER OF SEQ ID NOS: 84
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 57
;   LENGTH: 318
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-60-188-914-57

  Query Match             100.0%;  Score 1669;  DB 37;  Length 318;
  Best Local Similarity   100.0%;  Pred. No. 1.6e-152;
  Matches  318;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MMSFAPNASHSPVFLLLGFSRANISYTLLFFLFLAIYLTTILGNVTLVLLISWDSRLHSP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MMSFAPNASHSPVFLLLGFSRANISYTLLFFLFLAIYLTTILGNVTLVLLISWDSRLHSP 60

Qy         61 MYYLLRGLSVIDMGLSTVTLPQLLAHLVSHYPTIPAARCLAQFFFFYAFGVTDTLVIAVM 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 MYYLLRGLSVIDMGLSTVTLPQLLAHLVSHYPTIPAARCLAQFFFFYAFGVTDTLVIAVM 120

Qy        121 ALDRYVAICDPLHYALVMNHQRCACLLALSWVVSILHTMLRVGLVLPLCWTGDAGGNVNL 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 ALDRYVAICDPLHYALVMNHQRCACLLALSWVVSILHTMLRVGLVLPLCWTGDAGGNVNL 180

Qy        181 PHFFCDHRPLLRASCSDIHSNELAIFFEGGFLMLGPCALIVLSYVRIGAAILRLPSAAGR 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 PHFFCDHRPLLRASCSDIHSNELAIFFEGGFLMLGPCALIVLSYVRIGAAILRLPSAAGR 240

Qy        241 RRAVSTCGSHLTMVGFLYGTIICVYFQPPFQNSQYQDMVASVMYTAITPLANPFVYSLHN 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 RRAVSTCGSHLTMVGFLYGTIICVYFQPPFQNSQYQDMVASVMYTAITPLANPFVYSLHN 300

Qy        301 KDVKGALCRLLEWVKVDP 318
              ||||||||||||||||||
Db        301 KDVKGALCRLLEWVKVDP 318


RESULT 10
US-10-149-826-27
; Sequence 27, Application US/10149826
; GENERAL INFORMATION:
;  APPLICANT: INCYTE GENOMICS, INC.
;  APPLICANT:  BURFORD, Neil
;  APPLICANT:  BAUGHN, Mariah R.
;  APPLICANT:  AU-YOUNG, Janice
;  APPLICANT:  YANG, Junming
;  APPLICANT:  LU, Dyung Aina M.
;  APPLICANT:  REDDY, Roopa
;  TITLE OF INVENTION: G-PROTEIN COUPLED RECEPTORS
;  FILE REFERENCE: PI-0001 PCT
;  CURRENT APPLICATION NUMBER: US/10/149,826
;  CURRENT FILING DATE:  2002-06-10
;  PRIOR APPLICATION NUMBER: 60/172,852; 60/171,732; 60/176,148; 60/177,331
;  PRIOR FILING DATE: 1999-12-10; 1999-12-22; 2000-01-14; 2000-01-21
;  NUMBER OF SEQ ID NOS: 78
;  SOFTWARE: PERL Program
; SEQ ID NO 27
;   LENGTH: 317
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   OTHER INFORMATION: Incyte ID No: 7472013CD1
US-10-149-826-27

  Query Match             99.7%;  Score 1664;  DB 27;  Length 317;
  Best Local Similarity   100.0%;  Pred. No. 5e-152;
  Matches  317;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 MSFAPNASHSPVFLLLGFSRANISYTLLFFLFLAIYLTTILGNVTLVLLISWDSRLHSPM 61
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MSFAPNASHSPVFLLLGFSRANISYTLLFFLFLAIYLTTILGNVTLVLLISWDSRLHSPM 60

Qy         62 YYLLRGLSVIDMGLSTVTLPQLLAHLVSHYPTIPAARCLAQFFFFYAFGVTDTLVIAVMA 121
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 YYLLRGLSVIDMGLSTVTLPQLLAHLVSHYPTIPAARCLAQFFFFYAFGVTDTLVIAVMA 120

Qy        122 LDRYVAICDPLHYALVMNHQRCACLLALSWVVSILHTMLRVGLVLPLCWTGDAGGNVNLP 181
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 LDRYVAICDPLHYALVMNHQRCACLLALSWVVSILHTMLRVGLVLPLCWTGDAGGNVNLP 180

Qy        182 HFFCDHRPLLRASCSDIHSNELAIFFEGGFLMLGPCALIVLSYVRIGAAILRLPSAAGRR 241
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 HFFCDHRPLLRASCSDIHSNELAIFFEGGFLMLGPCALIVLSYVRIGAAILRLPSAAGRR 240

Qy        242 RAVSTCGSHLTMVGFLYGTIICVYFQPPFQNSQYQDMVASVMYTAITPLANPFVYSLHNK 301
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 RAVSTCGSHLTMVGFLYGTIICVYFQPPFQNSQYQDMVASVMYTAITPLANPFVYSLHNK 300

Qy        302 DVKGALCRLLEWVKVDP 318
              |||||||||||||||||
Db        301 DVKGALCRLLEWVKVDP 317


RESULT 11
US-10-292-798-144
; Sequence 144, Application US/10292798
; GENERAL INFORMATION:
;  APPLICANT: SUWA, MAKIKO
;  APPLICANT:  ASAI, KIYOSHI
;  APPLICANT:  AKIYAMA, YUTAKA
;  APPLICANT:  ABURATANI, HIROYUKI
;  TITLE OF INVENTION: GUANOSINE TRIPHOSPHATE-BINDING PROTEIN COUPLED RECEPTORS
;  FILE REFERENCE: 084335/166
;  CURRENT APPLICATION NUMBER: US/10/292,798
;  CURRENT FILING DATE:  2002-11-13
;  PRIOR APPLICATION NUMBER: 10/017,161
;  PRIOR FILING DATE: 2001-12-18
;  PRIOR APPLICATION NUMBER: JP 2001-246789
;  PRIOR FILING DATE: 2001-06-18
;  NUMBER OF SEQ ID NOS: 2070
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 144
;   LENGTH: 317
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-292-798-144

  Query Match             99.7%;  Score 1664;  DB 28;  Length 317;
  Best Local Similarity   100.0%;  Pred. No. 5e-152;
  Matches  317;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 MSFAPNASHSPVFLLLGFSRANISYTLLFFLFLAIYLTTILGNVTLVLLISWDSRLHSPM 61
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MSFAPNASHSPVFLLLGFSRANISYTLLFFLFLAIYLTTILGNVTLVLLISWDSRLHSPM 60

Qy         62 YYLLRGLSVIDMGLSTVTLPQLLAHLVSHYPTIPAARCLAQFFFFYAFGVTDTLVIAVMA 121
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 YYLLRGLSVIDMGLSTVTLPQLLAHLVSHYPTIPAARCLAQFFFFYAFGVTDTLVIAVMA 120
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Qy        541 CCTCACTTCTTTTGTGACCACCGGCCACTTCTGCGAGCCTCTTGTTCTGACATACATTCT 600
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        741 CCTCACTTCTTTTGTGACCACCGGCCACTTCTGCGAGCCTCTTGTTCTGACATACATTCT 800

Qy        601 AATGAGCTGGCCATATTCTTTGAGGGTGGCTTCCTTATGCTGGGCCCCTGTGCCCTCATT 660
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        801 AATGAGCTGGCCATATTCTTTGAGGGTGGCTTCCTTATGCTGGGCCCCTGTGCCCTCATT 860

Qy        661 GTACTCTCTTATGTCCGAATTGGGGCCGCTATTCTACGTTTGCCTTCAGCTGCTGGTCGC 720
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        861 GTACTCTCTTATGTCCGAATTGGGGCCGCTATTCTACGTTTGCCTTCAGCTGCTGGTCGC 920

Qy        721 CGCCGAGCAGTCTCCACCTGTGGATCCCACCTCACCATGGTTGGTTTCCTCTACGGCACC 780
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        921 CGCCGAGCAGTCTCCACCTGTGGATCCCACCTCACCATGGTTGGTTTCCTCTACGGCACC 980

Qy        781 ATCATTTGTGTCTACTTCCAGCCTCCCTTCCAGAACTCTCAGTATCAGGACATGGTGGCT 840
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        981 ATCATTTGTGTCTACTTCCAGCCTCCCTTCCAGAACTCTCAGTATCAGGACATGGTGGCT 1040

Qy        841 TCAGTAATGTATACTGCCATTACACCTTTGGCCAACCCATTTGTGTATAGCCTCCACAAT 900
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1041 TCAGTAATGTATACTGCCATTACACCTTTGGCCAACCCATTTGTGTATAGCCTCCACAAT 1100

Qy        901 AAGGATGTCAAGGGTGCACTCTGCAGGCTGCTTGAATGGGTGAAGGTAGACCCCTGA 957
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1101 AAGGATGTCAAGGGTGCACTCTGCAGGCTGCTTGAATGGGTGAAGGTAGACCCCTGA 1157
```

RESULT 6
US-10-149-826-66
; Sequence 66, Application US/10149826
; Publication No. US20040224314A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.
; APPLICANT: BURFORD, Neil
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: AU-YOUNG, Janice
; APPLICANT: YANG, Junming
; APPLICANT: LU, Dyung Aina M.
; APPLICANT: REDDY, Roopa
; TITLE OF INVENTION: G-PROTEIN COUPLED RECEPTORS
; FILE REFERENCE: PI-0001 PCT
; CURRENT APPLICATION NUMBER: US/10/149,826
; CURRENT FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: 60/172,852; 60/171,732; 60/176,148; 60/177,331
; PRIOR FILING DATE: 1999-12-10; 1999-12-22; 2000-01-14; 2000-01-21
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: PERL Program
; SEQ ID NO 66
; LENGTH: 954
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No: 7472013CB1
US-10-149-826-66

Query Match 99.7%; Score 954; DB 18; Length 954;
Best Local Similarity 100.0%; Pred. No. 4.4e-295;
Matches 954; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          4 ATGAGCTTTGCCCCTAATGCTTCACACTCTCCGGTTTTTTTGCTCCTTGGGTTCTCGAGA 63
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 ATGAGCTTTGCCCCTAATGCTTCACACTCTCCGGTTTTTTTGCTCCTTGGGTTCTCGAGA 60

Qy         64 GCTAACATCTCCTACACTCTCCTCTTCTTCCTGTTCCTGGCTATTTACCTGACCACCATA 123
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 GCTAACATCTCCTACACTCTCCTCTTCTTCCTGTTCCTGGCTATTTACCTGACCACCATA 120

Qy        124 CTGGGGAATGTGACACTGGTGCTGCTCATCTCCTGGGACTCCAGACTGCACTCACCCATG 183
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 CTGGGGAATGTGACACTGGTGCTGCTCATCTCCTGGGACTCCAGACTGCACTCACCCATG 180

Qy        184 TATTATCTGCTTCGTGGCCTCTCTGTGATAGACATGGGGCTATCCACAGTTACACTGCCC 243
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 TATTATCTGCTTCGTGGCCTCTCTGTGATAGACATGGGGCTATCCACAGTTACACTGCCC 240

Qy        244 CAGTTGCTGGCCCATTTGGTCTCTCATTACCCAACCATTCCTGCTGCCCGCTGCTTGGCT 303
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 CAGTTGCTGGCCCATTTGGTCTCTCATTACCCAACCATTCCTGCTGCCCGCTGCTTGGCT 300

Qy        304 CAGTTCTTTTTCTTCTATGCATTTGGGGTTACAGATACACTTGTCATTGCTGTCATGGCT 363
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 CAGTTCTTTTTCTTCTATGCATTTGGGGTTACAGATACACTTGTCATTGCTGTCATGGCT 360

Qy        364 CTGGATCGCTATGTGGCCATCTGTGACCCCCTGCACTATGCTTTGGTAATGAATCACCAA 423
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 CTGGATCGCTATGTGGCCATCTGTGACCCCCTGCACTATGCTTTGGTAATGAATCACCAA 420

Qy        424 CGGTGTGCCTGCTTACTAGCCTTGAGCTGGGTGGTGTCCATACTGCACACCATGTTGCGT 483
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 CGGTGTGCCTGCTTACTAGCCTTGAGCTGGGTGGTGTCCATACTGCACACCATGTTGCGT 480

Qy        484 GTGGGACTCGTCCTGCCTCTTTGCTGGACTGGGGATGCTGGGGGCAACGTTAACCTTCCT 543
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 GTGGGACTCGTCCTGCCTCTTTGCTGGACTGGGGATGCTGGGGGCAACGTTAACCTTCCT 540

Qy        544 CACTTCTTTTGTGACCACCGGCCACTTCTGCGAGCCTCTTGTTCTGACATACATTCTAAT 603
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 CACTTCTTTTGTGACCACCGGCCACTTCTGCGAGCCTCTTGTTCTGACATACATTCTAAT 600

Qy        604 GAGCTGGCCATATTCTTTGAGGGTGGCTTCCTTATGCTGGGCCCCTGTGCCCTCATTGTA 663
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        601 GAGCTGGCCATATTCTTTGAGGGTGGCTTCCTTATGCTGGGCCCCTGTGCCCTCATTGTA 660

Qy        664 CTCTCTTATGTCCGAATTGGGGCCGCTATTCTACGTTTGCCTTCAGCTGCTGGTCGCCGC 723
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        661 CTCTCTTATGTCCGAATTGGGGCCGCTATTCTACGTTTGCCTTCAGCTGCTGGTCGCCGC 720

Qy        724 CGAGCAGTCTCCACCTGTGGATCCCACCTCACCATGGTTGGTTTCCTCTACGGCACCATC 783
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        721 CGAGCAGTCTCCACCTGTGGATCCCACCTCACCATGGTTGGTTTCCTCTACGGCACCATC 780

Qy        784 ATTTGTGTCTACTTCCAGCCTCCCTTCCAGAACTCTCAGTATCAGGACATGGTGGCTTCA 843
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        781 ATTTGTGTCTACTTCCAGCCTCCCTTCCAGAACTCTCAGTATCAGGACATGGTGGCTTCA 840

Qy        844 GTAATGTATACTGCCATTACACCTTTGGCCAACCCATTTGTGTATAGCCTCCACAATAAG 903
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        841 GTAATGTATACTGCCATTACACCTTTGGCCAACCCATTTGTGTATAGCCTCCACAATAAG 900

Qy        904 GATGTCAAGGGTGCACTCTGCAGGCTGCTTGAATGGGTGAAGGTAGACCCCTGA 957
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        901 GATGTCAAGGGTGCACTCTGCAGGCTGCTTGAATGGGTGAAGGTAGACCCCTGA 954
```

RESULT 7
US-10-774-355A-77
; Sequence 77, Application US/10774355A
; Publication No. US20050043513A1
; GENERAL INFORMATION:
; APPLICANT: Firestein, Stuart
; APPLICANT: Zhang, Xinmin
; TITLE OF INVENTION: MOUSE OLFACTORY RECEPTOR GENE SUPERFAMILY
; FILE REFERENCE: A34570-PCT-USA-A 070050.2520
; CURRENT APPLICATION NUMBER: US/10/774,355A
; CURRENT FILING DATE: 2004-02-06
; PRIOR APPLICATION NUMBER: PCT/US02/25556
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: 60/311,159
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 60/339,694
; PRIOR FILING DATE: 2001-12-12
; NUMBER OF SEQ ID NOS: 2596